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1   Wireless Andrew: building a high speed, campus-wide wireless data network
Bernard J. Bennington, Charles R. Bartel
January 2001   Mobile Networks and Applications,   Volume 6 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(159.87 KB)   Additional Information: full citation, references, index terms

Keywords: Andrew, WaveLAN, integration, wireless network

2 Experience with a low power wireless mobile computing platform

Vijay Raghunathan, Trevor Pering, Roy Want, Alex Nguyen, Peter Jensen
August   ISLPED '04: Proceedings of the 2004 international symposium on Low power
2004   electronics and design
Publisher: ACM

Full text available: pdf(315.45 KB)

Additional Information: full citation, abstract, references, cited by, index terms

A detailed power analysis of a multi-radio mobile platform highlights the complex tradeoffs between the computation, storage, and communication subsystems. The particular mobile device, which does not include an LCD or other on-board display, can be ...

Keywords: mobile computing, power management, wireless systems

3 Securing wireless data: system architecture challenges

Srivaths Ravi, Anand Raghunathan, Nachiketh Potlapally
October   ISSS '02: Proceedings of the 15th international symposium on System Synthesis
2002
Publisher: ACM

Full text available: pdf(172.35 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Security is critical to a wide range of current and future wireless data applications and services. This paper highlights the challenges posed by the need for security during system architecture design for wireless handsets, and provides an overview ...

Keywords: 3DES, AES, DES, IPSec, RSA, SSL, WTLS, decryption, design methodology, embedded system, encryption, handset, mobile computing, performance, platform, security, security processing, system architecture, wireless communications

4 Modeling of collision avoidance protocols in single-channel multihop wireless networks

Yu Wang, J. J. Garcia-Luna-Aceves
September   Wireless Networks,   Volume 10 Issue 5
2004
Publisher: Kluwer Academic Publishers

Full text available: pdf(271.77 KB)

Additional Information: full citation, abstract, references, index terms, review

Although there has been considerable work on the performance evaluation of collision avoidance schemes, most analytical work is confined to single-hop ad hoc networks or networks with very few hidden terminals. We present the first analytical model to ...

Keywords: IEEE 802.11, ad hoc networks, analytical modeling, collision avoidance, medium access control, simulation evaluation

5 The shared wireless infostation model: a new ad hoc networking paradigm (or where there is a whale, there is a way)

Tara Small, Zygmunt J. Haas
June   MobiHoc '03: Proceedings of the 4th ACM international symposium on Mobile ad hoc
2003   networking & computing
Publisher: ACM

Full text available: pdf(389.27 KB).   Additional Information: full citation, abstract, references, cited by, index terms

In wireless ad hoc networks, capacity can be traded for delay. This tradeoff has been the subject of a number of studies, mainly concentrating on the two extremes: either minimizing the delay or maximizing the capacity. However, in between these extremes, ...

Keywords: SWIM, ad hoc, animal tag, capacity-delay tradeoff, disease model, infostation, network

6 802.11b access point mapping

Simon Byers, Dave Kormann
May 2003   Communications of the ACM,   Volume 46 Issue 5
Publisher: ACM

Full text available: pdf(151.86 KB) html(30.48 KB).   Additional Information: full citation, abstract, references, cited by, index terms

Considering some of the practical issues encountered when finding and mapping wireless network access points.

7 Blocking-aware processor voltage scheduling for real-time tasks

Fan Zhang, Samuel T. Chanson
May   ACM Transactions on Embedded Computing Systems (TECS),   Volume 3 Issue 2
2004
Publisher: ACM

Full text available: pdf(409.25 KB).   Additional Information: full citation, abstract, references, cited by, index terms

As mobile computing is getting popular, there is a growing need for techniques that minimize energy consumption on battery-powered mobile devices. Processor voltage scheduling can effectively reduce processor energy consumption by lowering the processor ...

Keywords: Dynamic power management, non-preemptible sections, power-aware scheduling, real-time systems

8 Wireless Coyote: a computer-supported field trip

Wayne C. Grant
May   Communications of the ACM,   Volume 36 Issue 5
1993
Publisher: ACM

Full text available: pdf(3.08 MB).   Additional Information: full citation, cited by, index terms, review

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9 Robotics-based location sensing using wireless ethernet

Andrew M. Ladd, Kostas E. Bekris, Algis Rudys, Guillaume Marceau, Lydia E. Kavraki, Dan S. Wallach
September   MobiCom '02: Proceedings of the 8th annual international conference on Mobile
2002   computing and networking
Publisher: ACM

Full text available: pdf(235.70 KB).   Additional Information: full citation, abstract, references, cited by, index terms

A key subproblem in the construction of location-aware systems is the determination of the position of a mobile device. This paper describes the design, implementation and analysis of a system for determining position inside a building from measured ...

Keywords: 802.11, localization, mobile systems, probabilistic analysis, wireless networks

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10 Electronic shepherd - a low-cost, low-bandwidth, wireless network system

Bjørn Thorstensen, Tore Syversen, Trond-Are Bjørnvold, Tron Walseth
June   MobiSys '04: Proceedings of the 2nd international conference on Mobile systems,
2004   applications, and services
Publisher: ACM

Full text available: pdf(409.68 KB).   Additional Information: full citation, abstract, references, cited by, index terms

This paper reports a new novel low-cost, wireless communication network system, called the "Electronic Shepherd" (ES). The system is innovative in the way that it supports flock behavior, meaning that a flock leader monitors the state of the other elements ...

Keywords: GPRS, GPS, animal tracking, cost-effective communication, low-power equipment, rural computing, short-range communication, wireless network

11 Security protocol for IEEE 802.11 wireless local area network

Se Hyun Park, Aura Ganz, Zvi Ganz
September   Mobile Networks and Applications,   Volume 3 Issue 3
1998
Publisher: ACM

Full text available: pdf(263.66 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

As Wireless Local Area Networks (WLANs) are rapidly deployed to expand the field of wireless products, the provision of authentication and privacy of the information transfer will be mandatory. These functions need to take into account the inherent limitations ...

12 Modeling wireless shadow networks

Filip De Turck, Aurel A. Lazar
October   MSWiM '04: Proceedings of the 7th ACM international symposium on Modeling,
2004   analysis and simulation of wireless and mobile systems
Publisher: ACM

Full text available: pdf(587.93 KB)   Additional Information: full citation, abstract, references, index terms

In case of natural disasters or intentional attacks, telecommunication networks often get heavily damaged and current resilience schemes have proven to be insufficient for rapid recovery of telecommunication services from catastrophic failures. We consider ...

Keywords: ad hoc networking, directional antennas, node location, throughput estimation, wireless recovery networks

13 Opportunistic routing in multi-hop wireless networks

Sanjit Biswas, Robert Morris
January   ACM SIGCOMM Computer Communication Review,   Volume 34 Issue 1
2004
Publisher: ACM

Full text available: pdf(202.98 KB)   Additional Information: full citation, abstract, references

This paper describes Extremely Opportunistic Routing (ExOR), a new unicast routing technique for multi-hop wireless networks. ExOR forwards each packet through a sequence of nodes, deferring the choice of each node in the sequence until after the previous ...

14 InfoPoint: A Device that Provides a Uniform User Interface to Allow Appliances to Work Together over a Network

Naohiko Kohtake, Jun Rekimoto, Yuichiro Anzai
January   Personal and Ubiquitous Computing,   Volume 5 Issue 4
2001
Publisher: Springer-Verlag

Full text available: pdf(563.67 KB)   Additional Information: full citation, abstract, cited by, index terms

This paper proposes a new hand-held device called "InfoPoint" that allows appliances to work together over a network. We have applied the idea of "drag-and-drop" operation as provided in the GUIs of PC and workstation desktop ...

15 Contextual information access and storytelling in mixed reality using hypermedia

Luis Romero, JORGE SANTIAGO, NUNO CORREIA
July   Computers in Entertainment (CIE),   Volume 2 Issue 3
2004
Publisher: ACM

Full text available: pdf(480.08 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This article describes gaming and storytelling activities in a mixed environment that integrates the real and virtual worlds, uses an augmented reality paradigm, and is supported by a structuring and presentation framework for use in context-aware mixed-reality ...

Keywords: hypermedia interfaces, hypermedia model, mixed and augmented reality, mobile gaming and storytelling

16 On proxy agents, mobility, and web access

Anupam Joshi
December   Mobile Networks and Applications,   Volume 5 Issue 4
2000
Publisher: Kluwer Academic Publishers

Full text available: pdf(201.52 KB)   Additional Information: full citation, abstract, references, cited by, index terms

With the emerging need for ubiquitous access to information, web access from mobile clients is gaining increasing importance. Unfortunately, the underlying protocols of the web are not designed to support operations from a resource poor platform in a ...

17 End-to-end throughput and delay assurances in multihop wireless hotspots

Kuang-Ching Wang, Parameswaran Ramanathan
September 2003   WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots
Publisher: ACM

Full text available: pdf(283.18 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Next generation Wireless Local Area Networks (WLAN's) are likely to require multihop wireless connections between mobile nodes and Internet gateways to achieve high data rates from larger distances. The paper addresses the challenges in concurrently ...

Keywords: IEEE 802.11, medium access, proportional differentiation, quality of service, scheduling

18 Health aspects of wireless communication: personal wireless communication radiation and the eye lens

James C. Lin
July 2003   ACM SIGMOBILE Mobile Computing and Communications Review,   Volume 7 Issue 3
Publisher: ACM

Full text available: pdf(61.67 KB)   Additional Information: full citation, references

19 Improving web browsing performance on wireless pdas using thin-client computing

Albert M. Lai, Jason Nieh, Bhagyashree Bohra, Vijayarka Nandikonda, Abhishek P. Surana, Suchita Varshneya
May 2004   WWW '04: Proceedings of the 13th international conference on World Wide Web
Publisher: ACM

Full text available: pdf(433.53 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Web applications are becoming increasingly popular for mobile wireless PDAs. However, web browsing on these systems can be quite slow. An alternative approach is handheld thin-client computing, in which the web browser and associated application logic ...

Keywords: thin-client computing, web performance, wireless and mobility

20 Efficient web browsing on handheld devices using page and form summarization

January   ACM Transactions on Information Systems (TOIS),   Volume 20 Issue 1
2002
Publisher: ACM
Full text available: pdf(4.47   Additional Information: full citation, abstract, references, cited by, index terms,
MB)   review

We present a design and implementation for displaying and manipulating HTML pages on
small handheld devices such as personal digital assistants (PDAs), or cellular phones. We
introduce methods for summarizing parts of Web pages and HTML forms. Each Web ...

Keywords: PDA, Personal digital assistant, WAP, WML, forms, handheld computers, mobile
computing, summarization, ubiquitous computing, wireless computing

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